

AMENDMENT UNDER 37 C.F.R. § 1.111

U.S. Application No.: 10/501,548

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A fluorine-containing copolymer obtained by copolymerizing tetrafluoroethylene, hexafluoropropylene and optionally perfluoro vinyl ether as component monomers,

wherein a weight ratio of tetrafluoroethylene, hexafluoropropylene and perfluoro vinyl ether units constituting said fluorine-containing copolymer is 70 to 95 : 5 to 20 : 0 to 10, respectively;

said fluorine-containing copolymer having:

a melt flow rate of 30 (g/10 minutes) or more;

a volatile content index of 0.2 % by weight or less; and

a stress relaxation modulus $G(t)$ (unit: dyn/cm^2) which satisfies the following formula at $t = 0.1$ second when measured at a temperature of 310°C :

$$G(0.1) > 7 \times 10^6 \times X^{-1.62} - 3000$$

where X denotes the melt flow rate (unit: g/10 minutes).

2. (original): The fluorine-containing copolymer as claimed in claim 1, having a stress relaxation modulus $G(t)$ (unit: dyn/cm^2) which satisfies the following formula at $t = 0.1$ second when measured at a temperature of 310°C :

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No.: 10/501,548

$$G(0.1) > 7 \times 10^6 \times X^{-1.62}$$

where X denotes the melt flow rate (unit: g/10 minutes).

3. (canceled).

4. (canceled).

5. (previously presented): The fluorine-containing copolymer as claimed in claim 1, having a melting point of from 245 to 280 °C.

6. (previously presented): The fluorine-containing copolymer as claimed in claim 1, having a melt flow rate of from 30 to 50 (g/10 minutes).

7. (previously presented): The fluorine-containing copolymer as claimed in claim 1, having volatile content index of 0.15 % by weight or less.

8. (previously presented): The fluorine-containing copolymer as claimed in claim 1, having a weight ratio of tetrafluoroethylene, hexafluoropropylene and perfluoro vinyl ether units of 75 to 95 : 5 to 20 : 0 to 5, respectively.

9. (previously presented): An insulating material comprising the fluorine-containing copolymer as claimed in claim 1.

10. (previously presented): An insulated cable comprising a core conductor coated with an insulating material comprising the fluorine-containing copolymer as claimed in claim 1.

11. (previously presented): A method of insulating cable or wire which comprises extrusion coating cable or wire with the fluorine-containing copolymer as claimed in claim 1.